

### **REMARKS/ARGUMENTS**

In the pending Office Action, the Examiner indicated that claims 18, 21 through 46, 67, 70, and 71 are allowed. The indication of allowable subject matter is appreciated. This Amendment After Final provides amendments to independent claims 1, 47, and 50 that it is believed are appropriate for entry and will place those claims (and all claims dependent therefrom) in condition for allowance. The specification has been amended to correct a grammatical error at page 20, line 14 of the original specification. Claim 47 has been amended in response to the Examiner's claim objection and additionally as described below. Entry of this Amendment After Final and allowance of all pending claims is respectfully requested.

#### **The Accompanying Claim Amendments**

Claims 1-17, 19, 20, 47-66, 68, and 69 were rejected. The rejected claims include independent claims 1, 47, and 50. It is submitted that the claim amendments presented herein simply incorporate limitations that comprise subject matter that has already been indicated as allowable. Therefore, it is submitted that no further search is necessary, entry of the amendments is appropriate, and entry will result in all claims being in condition for allowance.

#### **Claim 50 et seq.**

In the accompanying amendment, rejected independent claim 50 to a logic synthesizer has been canceled, and claim dependencies of claims previously dependent from claim 50 have been changed so as to depend from allowed claim 70 (also directed to a logic synthesizer). Thus, claims 51-66 and 68 and 69 have been amended as appropriate so as to depend (directly or indirectly) from allowed claim 70 rather than from rejected claim 50. Since claim 70 has been allowed, it is submitted that entry of this change in dependency is appropriate and results in claims 51-66, 68, and 69 being allowable as well.

Claim 70 recites a logic synthesizer with logic for determining a set of cyclic parameters and a processor to synthesize a cyclic combinational circuit in accordance with the determined parameters, wherein the processor:

creates a network with no cycles, and then introduces cycles into  
the network and determines if the network is combinational, and then it repeats

introducing cycles into the network until a desired cyclic combinational circuit is implemented.

The accompanying amendment adds a similar limitation to the rejected independent claims 1 and 47.

**Claim 1**

Claim 1 is directed to a method of producing a cyclic combinational circuit, the method comprising determining cyclic parameters and synthesizing the cyclic combinational circuit, and the accompanying amended limitation recites:

wherein synthesizing comprises creating a network with no cycles, introducing cycles into the network, and determining if the network is combinational, and repeating introducing cycles into the network until a desired cyclic combinational circuit is implemented.

Thus, the amendment adds a limitation that leaves the method claim having a scope analogous to the already-allowed apparatus claim 70. It is submitted that entry of this amendment requires no further search, is proper for entry, and places claims 1-17, 19, and 20 in condition for allowance.

**Claim 47**

Claim 47 is a method claim directed to a method of logic synthesis, the method comprising determining cyclic parameters and using the determined parameters during synthesis of a cyclic combinational circuit, and the accompanying amended limitation recites:

wherein using the determined cyclic parameters comprises creating a network with no cycles, introducing cycles into the network, and determining if the network is combinational, and repeating introducing cycles into the network until a desired cyclic combinational circuit is implemented.

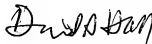
This amendment provides a limitation analogous to that of the already-allowed claim 70. It is submitted that this amendment requires no further search, is proper for entry, and places claims 47-59 in condition for allowance.

**CONCLUSION**

In view of the foregoing, Applicants assert that entry of this Amendment After Final is proper and will place all claims now pending in this Application in condition for allowance. Entry of this amendment and allowance are respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 858-350-6100.

Respectfully submitted,



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